

## HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART

CLASS		PLACARDS	CLASS OR DIVISION	PLACARD WEIGHT	NOTES	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3 GAS	2.3 GAS	3	4.1	4.2	4.3	5.1	5.2	6.1 LIQUIDS PG I ZONE A	7	8 LIQUIDS
CLASS 1	EXPLOSIVES *Add division number and compatibility group		1.1	ANY QUANTITY	A	*	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X	X	X
	EXPLOSIVES *Add division number and compatibility group		1.2	ANY QUANTITY		*	*	*	*	*	*	X		X	X	X		X	X	X	X			X
	EXPLOSIVES *Add compatibility group		1.3	ANY QUANTITY		*	*	*	*	*	*	X		X	X	X		X	X	X	X			X
	EXPLOSIVES *Add compatibility group		1.4	1001 Lbs.		*	*	*	*	*	*	0		0	0	0		0				0		0
	VERY INSENSITIVE EXPLOSIVES		1.5	1001 Lbs.	A	*	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X	X	X
	EXTREMELY INSENSITIVE EXPLOSIVES		1.6	1001 Lbs.		*	*	*	*	*	*													
CLASS 2	FLAMMABLE GASES		2.1	1001 Lbs.		X	X	0	X					X	0							0	0	
	NON-TOXIC NON-FLAMMABLE GASES		2.2	1001 Lbs.	B	X				X														
	POISONOUS GAS ZONE A		2.3	ANY QUANTITY		X	X	0	X			X				X	X	X	X	X	X			X
	POISONOUS GAS ZONE B		2.3	ANY QUANTITY		X	X	0	X			0				0	0	0	0	0	0			0
CLASS 3	FLAMMABLE LIQUIDS		3	1001 Lbs.		X	X	0	X					X	0					0		X		
CLASS 4	FLAMMABLE SOLIDS		4.1	1001 Lbs.		X				X				X	0							X		0
	SPONTANEOUSLY COMBUSTIBLE		4.2	1001 Lbs.		X	X	0	X					X	0							X		X
	DANGEROUS WHEN WET MATERIALS		4.3	ANY QUANTITY		X	X			X				X	0							X		0
CLASS 5	OXIDIZERS		5.1	1001 Lbs.	A	X	X			X				X	0	0						X		0
	ORGANIC PEROXIDES		5.2	1001 Lbs.	F	X	X			X				X	0							X		0
CLASS 6	POISONOUS LIQUIDS PG I ZONE A		6.1	ANY QUANTITY	E	X	X	0	X			0				X	X	X	X	X	X			X
CLASS 7	RADIOACTIVE MATERIALS		7	ANY QUANTITY (yellow III label)		X				X		0												
CLASS 8	CORROSIVE LIQUIDS		8	1001 Lbs.		X	X	0	X					X	0		0	X	0	0	0	X		

## §177.848 (e) INSTRUCTIONS FOR USING THE SEGREGATION TABLE FOR HAZARDOUS MATERIALS ARE AS FOLLOWS:

- The absence of any hazard class or division or a blank space in the Table indicates that no restrictions apply.
- The letter "X" in the Table indicates that these materials may not be loaded, transported, or stored together in the same transport vehicle or storage facility during the course of transportation.
- The letter "0" in the Table indicates that these materials may not be loaded, transported, or stored together in the same transport vehicle or storage facility during the course of transportation unless separated in a manner that, in the event of leakage from packages under conditions normally incident to transportation, commingling of hazardous materials would not occur. Notwithstanding the methods of separation employed, Class 8 (corrosive) liquids may not be loaded above or adjacent to Class 4 (flammable) or Class 5 (oxidizing) materials, except that shippers may load truckload shipments of such materials together when it is known that the mixture of contents would not cause a fire or a dangerous evolution of heat or gas.
- The "8" in the Table indicates that segregation among different Class 1 (explosive) materials is governed by the compatibility table in paragraph (f) of this section.
- The note "A" in the third column of the Table means that, notwithstanding the requirements of the letter "X", ammonium nitrate (UN 1942) and ammonium nitrate fertilizer may be loaded or stored with Division 1.1 (explosive) or Division 1.5 materials.
- When the §172.101 Table or §172.402 of this subchapter requires a package to bear a subsidiary hazard label, segregation appropriate to the subsidiary hazard must be applied when that segregation is more restrictive than that required by the primary hazard. However, hazardous materials of the same class may be stowed together without regard to segregation required for any secondary hazard if the materials are not capable of reacting dangerously with each other and causing combustion or dangerous evolution of heat, evolution of flammable, poisonous, or asphyxiant gases, or formation of corrosive or unstable materials.

## NOTES

- See instructions §177.848(e)(5).
- For domestic transportation of oxygen, compressed or oxygen, refrigerated liquid, the oxygen placard may be used in place of NON-FLAMMABLE GAS placard (§172.504(f)(7)).
- No applicable segregation restrictions in §177.848(d).
- For domestic transportation, a Class 9 placard is not required. A bulk packaging containing a Class 9 material must be marked with the appropriate identification number displayed on a Class 9 placard, an orange panel or a white-square-on-point display configuration as required by subpart D of this part (§172.504(f)(9)).
- Packages with POISON or POISON INHALATION HAZARD labels, or a POISON label displaying "PG III" or "PG III" marked next to a POISON label may not be transported with foodstuffs, feed or any other edible material, intended for humans or animals. For exceptions see §177.841(e).
- Placard any quantity of a 5.2. ORGANIC PEROXIDE, TYPE B, LIQUID OR SOLID, TEMPERATURE CONTROLLED.
- The KEEP AWAY FROM FOOD placard may be used until October 1, 2003.
- No placard is required for combustible liquids in non-bulk packages (119 gal. or less).

## PLACARDS NOT REQUIRED FOR:

- INFECTIOUS SUBSTANCE 6.2 (Labels only)
- RADIOACTIVE I, II (Labels only)
- ORM-D
- Any hazardous material identified on shipping papers as a "limited quantity."

## DANGEROUS PLACARD FOR MIXED LOADS










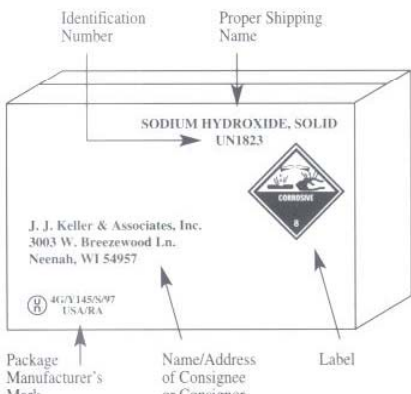
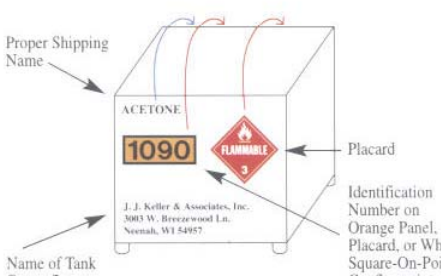
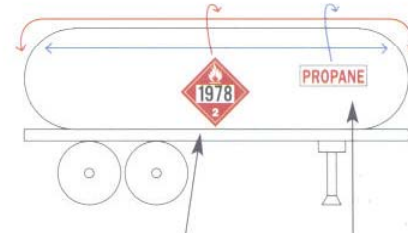
Placard 454 kg (1001 lbs.) gross weight of two or more categories of hazardous materials listed in Table 2. A freight container, unit load device, transport vehicle, or rail car which contains nonbulk packages with two or more categories of hazardous materials that require different placards, as specified in Table 2, may be placarded with a DANGEROUS placard instead of the separate placarding specified for each of the materials in Table 2. However, when 1,000 kg (2,205 pounds) aggregate gross weight or more of one category of material is loaded therein at one loading facility on a freight container, unit load device, transport vehicle, or rail car, the placard specified in Table 2 for that category must be applied.

































Division 1.4  
Division 1.5  
Division 1.6  
Division 2.1  
Division 2.2  
Class 3  
Combustible liquid  
Division 4.1  
Division 4.2



# HAZARDOUS MATERIALS MARKING CHART

<div></div> <div>ORIENTATION ARROWS</div> <div>Each non-bulk package of hazardous materials having inner packagings containing liquid hazardous material must be marked on two opposing sides with this marking.</div>	<div><div>CONSUMER COMMODITY</div><div>ORM-D</div></div> <div><div>CONSUMER COMMODITY</div><div>ORM-D-AIR</div></div> <div>ORM-D</div> <div>Each non-bulk packaging containing a material classed as ORM-D must be marked on at least one side or end with this marking.</div> <div>The ORM-D designation must be immediately following or below the proper shipping name of the material.</div> <div>If the shipment is to be by air, the marking must be ORM-D-AIR.</div>	<div>NOTICE</div> <div>INSIDE PACKAGES COMPLY WITH D.O.T. PRESCRIBED SPECIFICATIONS AS REQUIRED IN 49CFR PART 173.25</div> <div>INNER PACKAGINGS</div> <div>An overpack containing authorized packages of hazardous materials must be marked with this marking, unless the specification markings on the inside packages are visible.</div>	<div>THIS PACKAGE CONFORMS TO 49 CFR 173.4</div> <div>SMALL QUANTITY</div> <div>By placing this marking on a package the shipper certifies conformance with the requirements in §173.4 for small quantity exceptions.</div>	<div>DOT-E 01234</div> <div>EXEMPTION PACKAGE</div> <div>Each package authorized by an exemption must be plainly and durably marked "DOT-E" followed by the exemption number assigned by the exemption number assigned.</div>
<div></div> <div>MARINE POLLUTANT</div> <div>Non-bulk packagings which contain marine pollutants that are offered for transportation or transported by vessel must be marked with this marking in association with required labels or proper shipping name.</div> <div>Bulk packagings which contain marine pollutants must be marked on each side and each end with this marking. Except for transportation by vessel, a bulk packaging that bears a label or placard is not required to display this marking.</div>	<div></div> <div>HAZARDOUS WASTE</div> <div>This marking can be used to meet DOT and EPA marking requirements.</div> <div>Proper shipping names on non-bulk packages are not required to include the word "waste" if this marking is displayed in accordance with 40 CFR 262.32.</div>	<div>PG III</div> <div>PACKING GROUP III</div> <div>To take advantage of the exceptions in the regulations for a packaging containing a Division 6.1 PG III material, "PG III" must be displayed. The marking "PG III" may be placed adjacent to the POISON label or "PG III" may be displayed on the label. If "PG III" is displayed on the label it does not have to be marked adjacent to the label.</div>	<div></div> <div>INHALATION HAZARD</div> <div>Each package containing material that is poisonous by inhalation must be marked "Inhalation Hazard" in association with the required labels or placards, as appropriate, or shipping name when required. Bulk packages must be marked on two opposing sides.</div> <div>This marking is not required if the words "Inhalation Hazard" appear on a label or placard.</div>	<div></div> <div>DANGER</div> <div>DO NOT ENTER</div> <div>FUMIGANT</div> <div>No person may offer for transport or transport a rail car, freight container, truck body, or trailer that has been or is being fumigated, unless this marking is prominently displayed so it can be seen by any person attempting to enter the transport vehicle or freight container.</div> <div>For domestic transport an EPA warning label (40 CFR Part 156) may be used as an alternative to this marking.</div>
<div></div> <div>HOT</div> <div></div> <div>HOT 3257</div> <div>ELEVATED TEMPERATURE MATERIAL</div> <div>Bulk packagings of elevated temperature material must be marked on two opposing sides with the word "HOT".</div> <div>The combining of the "HOT" marking and the identification number marking on the same white square-on-point configuration is allowed.</div>	<div>04-02</div> <div>V I P L K T</div> <div>CARGO TANK TEST/INSPECTION</div> <div>Each cargo tank successfully completing a test/inspection must be marked with the date (month and year) and the type of test/inspection completed. The test/inspection may be abbreviated as follows:</div> <div>V - external visual      L - lining I - internal visual      K - leakage P - pressure              T - thickness</div>	<div></div> <div>1824 8</div> <div></div> <div>3082</div> <div>IDENTIFICATION NUMBER DISPLAY</div> <div>When allowed by the regulations, the identification number can be displayed on a placard, orange panel, or white square-on-point configuration.</div>		
<div>NON-BULK PACKAGE</div> <div></div> <div>Identification Number</div> <div>Proper Shipping Name</div> <div>SODIUM HYDROXIDE, SOLID UN1823</div> <div>J. J. Keller &amp; Associates, Inc. 3003 W. Breezewood Ln. Neenah, WI 54957</div> <div>49CFR 145.97 USARA</div> <div>Package Manufacturer's Mark</div> <div>Name/Address of Consignee or Consignor</div> <div>Label</div>	<div>BULK PACKAGE</div> <div>PORTABLE TANK &lt;1000 gallons capacity</div> <div></div> <div>Proper Shipping Name</div> <div>ACETONE</div> <div>1090</div> <div>PLACARD</div> <div>J. J. Keller &amp; Associates, Inc. 3003 W. Breezewood Ln. Neenah, WI 54957</div> <div>Identification Number on Orange Panel, Placard, or White Square-On-Point Configuration</div> <div>Name of Tank Owner/Lessee</div> <div>Tanks with ≥1000 gallons capacity must have identification numbers displayed on all 4 sides.</div>	<div>CARGO TANK</div> <div></div> <div>Identification number on placard, orange panel, or white square-on-point configuration. Display on all 4 sides.</div> <div>Common name or proper shipping name for Class 2 materials. Display on all 4 sides.</div>		

# HAZARDOUS MATERIALS PLACARDING CHART

<div>CLASS 1</div> <div></div> <div>EXPLOSIVES 1.1, 1.2, &amp; 1.3 *The Division number 1.1, 1.2 or 1.3 and compatibility group are in black ink. Placard any quantity of Division number 1.1, 1.2 or 1.3 material.</div>	<div>CLASS 1</div> <div></div> <div>EXPLOSIVES 1.4 *The compatibility group is in black ink. Placard 454 kg (1001 lbs.) or more of 1.4 Explosives.</div>	<div>CLASS 1</div> <div></div> <div>EXPLOSIVES 1.5 *The compatibility group is in black ink. Placard 454 kg (1001 lbs.) or more of 1.5 Blasting Agents.</div>	<div>CLASS 1</div> <div></div> <div>EXPLOSIVES 1.6 *The compatibility group is in black ink. Placard 454 kg (1001 lbs.) or more of 1.6 Explosives.</div>	<div>CLASS 2</div> <div></div> <div>OXYGEN Placard 454 kg (1001 lbs.) or more aggregate gross weight of either oxygen compressed or oxygen, refrigerated liquid. See §172.504(f)(7).</div>
<div>CLASS 2</div> <div>Division 2.1</div> <div></div> <div>FLAMMABLE GAS Placard 454 kg (1001 lbs.) or more of flammable gas. See DANGEROUS.</div>	<div>CLASS 2</div> <div>Division 2.2</div> <div></div> <div>NON-FLAMMABLE GAS Placard 454 kg (1001 lbs.) or more aggregate gross weight of non-flammable gas. See DANGEROUS.</div>	<div>CLASS 2</div> <div>Division 2.3</div> <div></div> <div>POISON GAS Placard any quantity of Division 2.3 material.</div>	<div>CLASS 3</div> <div></div> <div>FLAMMABLE Placard 454 kg (1001 lbs.) or more gross weight of flammable liquid. See DANGEROUS.</div>	<div>CLASS 3</div> <div></div> <div>GASOLINE May be used in the place of FLAMMABLE on a placard displayed on a cargo tank or a portable tank being used to transport gasoline by highway. See §172.542(c).</div>
<div>CLASS 3</div> <div></div> <div>COMBUSTIBLE Placard a combustible liquid when transported in bulk. A FLAMMABLE placard may be used in place of a Combustible placard on a cargo tank or portable tank or a compartmented tank car which contains both flammable and combustible liquids. See §172.504(f)(2).</div>	<div>CLASS 3</div> <div></div> <div>FUEL OIL May be used in place of COMBUSTIBLE on a placard displayed on a cargo tank or portable tank being used to transport by highway fuel oil not classed as a flammable liquid. See §172.544(c).</div>	<div>CLASS 4</div> <div>Division 4.1</div> <div></div> <div>FLAMMABLE SOLID Placard 454 kg (1001 lbs.) or more gross weight of flammable solid. See DANGEROUS.</div>	<div>CLASS 4</div> <div>Division 4.2</div> <div></div> <div>SPONTANEOUSLY COMBUSTIBLE Placard 454 kg (1001 lbs.) or more gross weight of spontaneously combustible material. See DANGEROUS.</div>	<div>CLASS 4</div> <div>Division 4.3</div> <div></div> <div>DANGEROUS WHEN WET MATERIAL Placard any quantity of Division 4.3 material.</div>
<div>CLASS 5</div> <div>Division 5.1</div> <div></div> <div>OXIDIZER Placard 454 kg (1001 lbs.) or more gross weight of oxidizing material. See DANGEROUS.</div>	<div>CLASS 5</div> <div>Division 5.2</div> <div></div> <div>ORGANIC PEROXIDE Placard 454 kg (1001 lbs.) or more gross weight of organic peroxide. See DANGEROUS. Placard any quantity of 5.2 ORGANIC PEROXIDE, TYPE B, LIQUID OR SOLID, TEMPERATURE CONTROLLED.</div>	<div>CLASS 6</div> <div>Division 6.1 Inhalation Hazard</div> <div></div> <div>POISON INHALATION HAZARD Placard any quantity of Inhalation Hazard, Zone A or B material.</div>	<div>CLASS 6</div> <div>Division 6.1 Other Than Inhalation Hazard</div> <div></div> <div>POISON Placard 454 kg (1001 lbs.) or more gross weight of poison. See DANGEROUS. See TOXIC and PG III placards.</div>	<div>CLASS 6</div> <div>Division 6.1 Other Than Inhalation Hazard</div> <div></div> <div>TOXIC Placard 454 kg (1001 lbs.) or more gross weight of poison. See DANGEROUS. The word "TOXIC" is allowed to be used in place of the word "POISON".</div>
<div>CLASS 6</div> <div>Division 6.1 Other Than Inhalation Hazard</div> <div></div> <div>PACKING GROUP III Placard 454 kg (1001 lbs.) or more gross weight of Packing Group III. See DANGEROUS. The text "PG III" is allowed to be used in place of the word "POISON".</div>	<div>CLASS 7</div> <div></div> <div>RADIOACTIVE Placard any quantity of packages bearing the RADIOACTIVE YELLOW III label. Certain low specific activity radioactive materials in "exclusive use" will not bear the label, but the RADIOACTIVE placard is required.</div>	<div>CLASS 8</div> <div></div> <div>CORROSIVE Placard 454 kg (1001 lbs.) or more gross weight of corrosive material. See DANGEROUS.</div>	<div>CLASS 9</div> <div></div> <div>MISCELLANEOUS A Class 9 placard is not required. However, you may placard 454 kg (1001 lbs.) or more gross weight of a material which presents a hazard during transport, but which is not included in any other hazard class. See DANGEROUS.</div>	<div>SUBSIDIARY RISK</div> <div></div> <div>NUMBERED UNNUMBERED Allowed for rail or highway transport until October 1, 2005. See §172.519(b)(4).</div>
<div>DANGEROUS</div> <div></div> <div>Placard 454 kg (1001 lbs.) gross weight of two or more categories of hazardous materials listed in Table 2. A freight container, unit load device, transport vehicle, or rail car which contains nonbulk packages with two or more categories of hazardous materials that require different placards, as specified in Table 2, may be placarded with a DANGEROUS placard instead of the separate placarding specified for each of the materials in Table 2. However, when 1,000 kg (2,205 pounds) aggregate gross weight or more of one category of material is loaded therein at one loading facility on a freight container, unit load device, transport vehicle, or rail car, the placard specified in Table 2 for that category must be applied.</div>	<div>SQUARE BACKGROUND</div> <div></div> <div>The white square background is required for the following placards when on rail cars: EXPLOSIVES 1.1 or 1.2; POISON GAS (Division 2.3, Hazard Zone A); POISON INHALATION HAZARD (Division 6.1, PG I, Hazard Zone A) and for DOT 113 tank cars FLAMMABLE GAS. The white square background is required for placards on motor vehicles transporting highway route controlled quantities of Class 7 materials.</div>	<div>DISPLAY OF IDENTIFICATION NUMBER</div> <div></div> <div>The display of an identification number on a placard is allowed, except for Class 1, Class 7, DANGEROUS, or subsidiary hazard placards. For a COMBUSTIBLE placard used to display an identification number, the entire background below the identification number must be white for transportation by rail and may be white for transportation by highway.</div>		



# HAZARDOUS MATERIALS LABELING CHART

<b>CLASS 1</b> Explosive 1.1 1.2 1.3  <small>*Include appropriate division number and compatibility group.</small>	<b>CLASS 1</b> Explosive 1.4  <small>*Include appropriate compatibility group.</small>	<b>CLASS 1</b> Explosive 1.5  <small>*Include appropriate compatibility group.</small>	<b>CLASS 1</b> Explosive 1.6  <small>*Include appropriate compatibility group.</small>	<b>CLASS 2</b> Division 2.1  Flammable gas.	<b>CLASS 2</b> Division 2.2  Non-flammable gas.
<b>CLASS 2</b> Division 2.2  Oxygen	<b>CLASS 2</b> Division 2.3  Poison gas	<b>CLASS 3</b>  Flammable liquid	<b>CLASS 4</b> Division 4.1  Flammable solid	<b>CLASS 4</b> Division 4.2  Spontaneously combustible	<b>CLASS 4</b> Division 4.3  Dangerous when wet
<b>CLASS 5</b> Division 5.1  Oxidizer	<b>CLASS 5</b> Division 5.2  Organic peroxide	<b>CLASS 6</b> Division 6.1 Inhalation Hazard  Poison inhalation hazard	<b>CLASS 6</b> Division 6.1 Other Than Inhalation Hazard  Poison <small>See Toxic and PG III labels.</small>	<b>CLASS 6</b> Division 6.1 Other Than Inhalation Hazard  Toxic <small>The word "TOXIC" is allowed to be used in place of the word "POISON."</small>	<b>CLASS 6</b> Division 6.1 Other Than Inhalation Hazard  PG III <small>The text "PG III" is allowed to be used in place of the word "POISON."</small>
<b>CLASS 6</b> Division 6.2  Infectious substance	<b>CLASS 6</b> Division 6.2  BIOHAZARD marking required by 29 CFR 1910.1030 may be used for Regulated Medical Waste. The Etiologic Agent label may be required (42 CFR 72.3).	<b>CLASS 7</b>  Radioactive I	<b>CLASS 7</b>  Radioactive II	<b>CLASS 7</b>  Radioactive III	<b>CLASS 8</b>  Corrosive
<b>CLASS 9</b>  Miscellaneous	<b>SUBSIDIARY RISK</b>  Numbered  Unnumbered <small>Allowed until October 1, 2005. See §172.402(b).</small>		<b>EMPTY</b>  <small>For Class 7 packagings that meet the requirements in §173.428.</small>	<b>FOR AIRCRAFT</b>  Cargo aircraft only  Magnetized material	

## GENERAL GUIDELINES ON USE OF HAZMAT LABELS

- The shipper must attach the appropriate label(s) to each package of hazardous material offered for shipment unless excepted from labeling requirements. (§172.400)
- If the material in a package has more than one hazard classification, the package must be labeled for each hazard. (§172.402)
- When two or more hazardous materials of different classes are packed within the same packaging or outer enclosure, the outside of the package or enclosure must be labeled for each class of hazardous material involved. (§172.404)
- Radioactive materials requiring labeling, must be labeled on two opposite sides of the package. (§172.403)
- A label should only be applied to a package containing a hazardous material if it represents the hazard inside. (§172.401)
- No one may offer or transport a package bearing any marking or label which by its color, design, or shape could be confused with a hazardous materials label. This does not prohibit the use of labels in conformance with U.N. Recommendations, IMDG Code, ICAO Technical Instructions, or TDG Regulations. (§172.401)



# HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART

COMPATIBILITY TABLE FOR CLASS 1 (EXPLOSIVE) MATERIALS

COMPATIBILITY GROUP	A	B	C	D	E	F	G	H	J	K	L	N	S
A		X	X	X	X	X	X	X	X	X	X	X	X
B	X		X	X <sup>(4)</sup>	X	X	X	X	X	X	X	X	4/5
C	X	X		2	2	X	6	X	X	X	X	3	4/5
D	X	X <sup>(4)</sup>	2		2	X	6	X	X	X	X	3	4/5
E	X	X	2	2		X	6	X	X	X	X	3	4/5
F	X	X	X	X	X		X	X	X	X	X	X	4/5
G	X	X	6	6	6	X		X	X	X	X	X	4/5
H	X	X	X	X	X	X	X		X	X	X	X	4/5
J	X	X	X	X	X	X	X	X		X	X	X	4/5
K	X	X	X	X	X	X	X	X	X		X	X	4/5
L	X	X	X	X	X	X	X	X	X	X		1	X
N	X	X	3	3	3	X	X	X	X	X	X		4/5
S	X	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	X	4/5	

**§177.848 (g) Instructions for using the compatibility table for Class 1 (explosive) materials are as follows:**

- (1) A blank space in the Table indicates that no restrictions apply.
- (2) The letter "X" in the Table indicates that explosives of different compatibility groups may not be carried on the same transport vehicle.
- (3) The numbers in the Table mean the following:
  - (i) "1" means an explosive from compatibility group L shall only be carried on the same transport vehicle with an identical explosive.
  - (ii) "2" means any combination of explosives from compatibility groups C, D, or E is assigned to compatibility group E.
  - (iii) "3" means any combination of explosives from compatibility groups C, D, or E with those in compatibility group N is assigned to compatibility group D.
  - (iv) "4" means "see §177.835(g)" when transporting detonators.
  - (v) "5" means Division 1.4S fireworks may not be loaded on the same transport vehicle with Division 1.1 or 1.2 (explosive) materials.
  - (vi) "6" means explosive articles in compatibility group G, other than fireworks and those requiring special handling, may be loaded, transported and stored with other explosive articles of compatibility groups C, D and E, provided that explosive substances (such as those not contained in articles) are not carried in the same vehicle.
  - (h) Except as provided in paragraph (i) of this section, explosives of the same compatibility group but of different divisions may be transported together provided that the whole shipment is transported as though its entire contents were of the lower numerical division (i.e., Division 1.1 being lower than Division 1.2). For example, a mixed shipment of Division 1.2 (explosive) materials and Division 1.4 (explosive) materials, both of compatibility group D, must be transported as Division 1.2 (explosive) materials.
  - (i) When Division 1.5 materials, compatibility group D, are transported in the same freight container as Division 1.2 (explosive) materials, compatibility group D, the shipment must be transported as Division 1.1 (explosive) materials, compatibility group D.

**CLASS 1 EXPLOSIVE PLACARDS**

DIVISIONS  
1.1, 1.2 & 1.3



The Division number and compatibility group are printed in black ink where the \* is shown. Placard any quantity of Division number 1.1, 1.2 or 1.3 material.

\* Division Numbers and Compatibility Group

1.1A 1.2B 1.2L  
1.1B 1.2C 1.3C  
1.1C 1.2D 1.3F  
1.1D 1.2E 1.3G  
1.1E 1.2F 1.3H  
1.1F 1.2G 1.3J  
1.1G 1.2H 1.3K  
1.1J 1.2J 1.3L  
1.1L 1.2K

DIVISION 1.4



The compatibility group is printed in black ink, where the \* is shown. Placard 454 kg. (1001 lbs.) or more of 1.4 Explosives.

\* Compatibility Group

B  
C  
D  
E  
F  
G  
S

DIVISION 1.5



The compatibility group is D. Placard 454 kg. (1001 lbs.) or more of 1.5 Blasting Agents.

DIVISION 1.6



The compatibility group is N. Placard 454 kg. (1001 lbs.) or more of 1.6 Explosives.

**HAZARDOUS MATERIALS SHIPPING PAPERS**

<b>TO:</b> Consignee Street Destination Zip		<b>FROM:</b> Shipper Street Origin Zip	
Route		Vehicle Number	U.S. DOT Hazmat Reg. No.
No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS I.D. Number Packing Group WEIGHT (subject to correction) RATE LABELS REQUIRED (or exemption)

Generally, whenever a hazardous material is transported its description must appear on the shipping paper.

The description must adhere to these requirements:

1. If a hazardous material and a non-hazardous material are described on the same shipping paper, the hazardous material must be:
  - a. listed first
  - b. shown in a contrasting color (highlighted on a reproduction)
  - c. identified with an "X" or "RQ" before the proper shipping name in the column marked "HM".
2. Entry must be legible and printed in English.
3. Unless specifically authorized or required, the description may not contain codes or abbreviations.
4. Additional information must follow the basic description.
5. If more than one page is required, the first page must indicate such, for example, 'page 1 of 4.'
6. Shipping paper must show an emergency response telephone number, if required.
7. Shipping paper must contain shipper's certification, if required.

A shipping description must include:

1. proper shipping name (column 2, Hazardous Materials Table)
2. hazard class or division (column 3, Hazardous Materials Table)
3. identification number (column 4, Hazardous Materials Table)
4. packing group (column 5, Hazardous Materials Table)
5. except for empty packagings, the total quantity, including unit for measurement, of the hazardous material.

**§172.505 PLACARDING FOR SUBSIDIARY HAZARDS**



(a) Each transport vehicle, freight container, portable tank, unit load device, or rail car that contains a poisonous material subject to the "Poison Inhalation Hazard" shipping description of §172.203(m)(2) must be placarded with a POISON INHALATION HAZARD or POISON GAS placard, as appropriate, on each side and each end, in addition to any other placard required for that material in §172.504. Duplication of the POISON INHALATION HAZARD or POISON GAS placard is not required.

(b) In addition to the RADIOACTIVE placard which may be required by §172.504(e) of this subpart, each transport vehicle, portable tank or freight container that contains 454 kg (1001 pounds) or more gross weight of fissile or low specific activity uranium hexafluoride shall be placarded with a CORROSIVE placard on each side and each end.

(c) Each transport vehicle, portable tank, freight container or unit load device that contains a material which has a subsidiary hazard of being dangerous when wet, as defined in §173.124 of this subchapter, shall be placarded with DANGEROUS WHEN WET placards, on each side and each end, in addition to the placards required by §172.504.

(d) Hazardous materials that possess secondary hazards may exhibit subsidiary placards that correspond to the placards described in this part, even when not required by this part (see also §172.519(b)(4) of this subpart).